Annus LXVI Vol. 107

"SCIENTIA"

(RIVISTA DI SCIENZA)

Rivista Internazionale di Sintesi Scientifica - International Review of Scientific Synthesis

U. of ILL. LIBRARY
OCT 1 1973
CHICAGO CIRCLE

INDEX 1972

COMITATO SCIENTIFICO - SCIENTIFIC COMMITTEE

G. ABETTI
G. B. BONINO
P. CALDIROLA
L. CALIFANO
R. CANESTRARI
B. DE FINETTI
B. MIGLIORINI
G. MONTALENTI
E. PADOA
G. SANSONE
A. SESTINI
V. SOMENZI
S. TONZIG
L. TREVISAN

EDITOR: N. BONETTI — CHIEF EDITOR: A. DE MURTAS

Digitized by the Internet Archive
in 2025

https://archive.org/details/scientia_1972_107_index

INDEX

	Fasc.	Pag.
*** Scienza e Filosofia Science and Philosophy	1-2	5
*** Scienza, cultura e società Science, Culture and Society	5-6	373
Aloisi M. La ricerca e il potere (Scienza, cultura e società) Science and Power (Science, Culture and Society)	11-12	941
Bolzan J. E. Un antiguo antecedente del calculo de probabilidades An Ancient Anticipation of the Probability Calculus	9-10	873
Braunitzer G. Evolution der Moleküle The Evolution of Molecules	3-4	189
Bulferetti L. Sul condizionamento politico della scienza (Scienza, cultura e società) The Political Conditioning of Science (Science, Culture and Society)	11-12	953
Calamai G. and Righini G. Pulsars	11-12	973
Carsetti A. Percezione visiva e sistemi di Pattern Recognition Visual Perception and Systems of Pattern Recognition	5-6	455
de Finetti B. Pregiudizio e libertà (Scienza, cultura e società) Prejudice and Liberty (Science, Culture and Society)	9-10	765
Dulemba J. L. L'environnement atmosphérique terrestre The Earth's Atmospheric Environment	3-4	255
Feiwel G. R. Planners' Preferences and Theory of Economic Growth	3-4	217

	Fasc.	Pag.
Frajese A.		
Da Eudosso a Euclide		
From Eudoxus to Euclid	7-8	563
Gayer J.		
Systems Theory: Ontological and Epistemological Object . . .	7-8	609
Geymonat L.		
Unità della cultura (Scienza e filosofia)		
The Unitary Nature of Culture (Science and Philosophy) . . .	1-2	9
Geymonat L.		
L'impossibile neutralità (Scienza, cultura e società)		
Neutrality is Impossible (Science, Culture and Society)	9-10	753
Gheorghiu Vl. A.		
Betrachtungen über Suggestion und Suggestibilität		
On Suggestion and Suggestibility	9-10	811
Giacomini U.		
La nuova cosmologia (Scienza e filosofia)		
The New Cosmology (Science and Philosophy)	1-2	29
Kondratyev K. Ya.		
The Solar Constant	3-4	237
Laszlo E.		
A General Systems Model of the Evolution of Science	5-6	379
Leite Lopes J.		
L'évolution des notions d'espace et de temps		
The Evolution of the Notions of Space and Time	5-6	411
Lestienne R.		
Caractères de la durée physique (Première Partie)		
Characteristics of Physical Duration (First Part)	1-2	77
Lestienne R.		
Caractères de la durée physique (Deuxième Partie)		
Characteristics of Physical Duration (Second Part)	3-4	279
Lévy-Leblond J.-M.		
Crise de la science ou crise de la société ? (Scienza, cultura e società)		
Is there a Crisis in Science or in Society ? (Science, Culture and Society)	9-10	801
Mangione C.		
Storia della logica (Scienza e filosofia)		
The History of Logic (Science and Philosophy)	1-2	27
Maracchia S.		
Aspetti apollinei e faustiani della matematica greca		
Apollinian and Faustian Aspects of Greek Mathematics	5-6	495
Maxia C. e Proverbio E.		
Astroarcheologia e civiltà megalitiche		
Astroarchaeology and Megalithic Civilizations	9-10	861

	Fasc.	Pag.
Meotti A.		
Il neopositivismo (Scienza e filosofia)		
Neo-Positivism (Science and Philosophy)	1-2	39
Meotti F.		
Lo sviluppo della psicologia (Scienza e filosofia)		
The Development of Psychology (Science and Philosophy) . .	1-2	37
Mondella F.		
La biologia e il materialismo (Scienza e filosofia)		
Biology and Materialism (Science and Philosophy)	1-2	33
Montalenti G.		
Prometeo (Scienza, cultura e società)		
Prometheus (Science, Culture and Society)	9-10	789
Musgrave A.		
George Boole and Psychologism	7-8	593
Pala A.		
Sull'uso di classe della scienza (Scienza, cultura e società)		
Class and Science (Science, Culture and Society)	11-12	963
Paty M.		
Matière, espace et temps selon Newton		
Matter, Space and Time According to Newton	11-12	995
Quaranta M.		
La cultura italiana (Scienza e filosofia)		
Italian Philosophical Thought (Science and Philosophy) . . .	1-2	17
Richardson D. B.		
Cultural Influences in Contemporary Space Theory	7-8	575
Tagliagambe S.		
Il materialismo dialettico (Scienza e filosofia)		
Dialectical Materialism (Science and Philosophy)	1-2	41
Tamino G.		
Il modello informazionale della sintesi proteica		
The Information of Protein Synthesis	1-2	101
Tisato R.		
Scuola e società (Scienza e filosofia)		
School and Society (Science and Philosophy)	1-2	23
Törnebohm H.		
Research as an Example of an Innovative System	3-4	245
Troitskaya V. A.		
Geomagnetic Pulsations and Cosmic Space	5-6	397
Vegetti M.		
Il pensiero dei greci (Scienza e filosofia)		
Greek Thought (Science and Philosophy)	1-2	13
Vincensini P.		
La géométrie différentielle au XIXème Siècle		
Differential Geometry in the Nineteenth Century	7-8	617

CRONACHE - REPORTS

	Fasc.	Pag.
Manipolazioni dell'uomo The Manipulation of Man	1-2	133
Cibernetica e pedagogia (*A. Casali*) Cybernetics and Teaching	1-2	136
La natura minacciata The Threat to Nature	3-4	307
Lotte nella scuola Conflicts in the School	3-4	316
La ricerca in Europa Research in Europe	5-6	505
L'ambiente e il cancro Cancer and the Environment	5-6	509
La scienza e la guerra Science and War	7-8	697
I dieci anni di vita dell'Istituto Mario Negri The Tenth Anniversary of the Mario Negri Institute	9-10	879
Gli impianti atomici e la sicurezza Atomic Power Stations and Security	9-10	883
I Lincei e i problemi del mondo d'oggi The Lincei Members and the Problems of the World Today	11-12	1055

RECENSIONI - BOOK REVIEWS

	Fasc.	Pag.
Akhmanov S. A. and Khokhlov R. V. Problems of Nonlinear Optics (*G. Viliani*)	11-12	1078
Allen C. and Johnson R. W. (eds.) African Perspectives (*V. Lanternari*)	3-4	325
Arcidiacono S. Materia e vita (*L. Califano*)	9-10	898
Astier J. L. Géophysique appliquée à l'hydrogéologie (*L. Trevisan*)	7-8	722
Barbieri G. and Almagià R. L'Italia (*E. Migliorini*)	7-8	722
Bargmann W. and Scharrer B. (eds.) Aspects of Neuroendocrinology (*B. Lanza*)	9-10	903
Bastide R. Le prochain et le lointain (*V. Lanternari*)	5-6	517
Bec P. Manuel pratique de philologie romane. Vol. II (*G. Ghinassi*)	3-4	327
Becker W. and Contopoulos G. (eds.) The Spiral Structure of Our Galaxy (*G. Calamai*)	5-6	527
Beers R. F. and Braun W. (eds.) Biological Effects of Polynucleotides (*L. Califano*)	1-2	151
Bellone E. (ed.) Opere di Kelvin (*S. D'Agostino*)	9-10	891
Bergier J. Les empires de la chimie moderne (*P. Cavallotti*)	9-10	906
Black R. M. The Elements of Palaeontology (*T. Lipparini*)	3-4	331
Black W. W. An Introduction to On-line Computers (*A. Casali*)	11-12	1081
Bleeker C. J. and Widengren G. (eds.) Historia Religionum (*V. Lanternari*)	9-10	887
Bolis L., Katchalsky A., Keynes R. D., Loewenstein W. R. and Pethica B. A. (eds.) Permeability and Function of Biological Membranes (*G. Montalenti*)	7-8	712
Bondi H. Miti e ipotesi nella teoria fisica (*G. Calamai*)	7-8	719
Borger R. and Cioffi F. (eds.) Explanation in the Behavioural Sciences (*A. Serrai*)	5-6	519
*** Boston Studies in the Philosophy of Science. Vol. III (*D. Costantini*)	11-12	1068
Bourne G. H. (ed.) The Chimpanzee. Vols. I, II, III (*B. Lanza*)	1-2	156
Bourne G. H. (ed.) The Chimpanzee. Vol. IV (*B. Lanza*)	7-8	716

INDEX 1972

	Fasc.	Pag.
Bourne G. H. (ed.) The Chimpanzee. Vol. V (*B. Lanza*)	9-10	902
Braitsch O. Salt Deposits, their Origin and Composition (*A. Debenedetti*)	9-10	909
Burridge K. New Heaven, New Earth (*V. Lanternari*)	1-2	144
Carnap R. I fondamenti filosofici della fisica (*D. Costantini*)	1-2	148
Carnap R. and Jeffrey R. C. (eds.) Studies in Inductive Logic and Probability. Vol. I (*D. Costantini*)	11-12	1063
Ceccato S. Cibernetica per tutti. 2 Vols. (*A. Casali*)	5-6	530
Cereijido M. and Rotunno C. A. Introduction to the Study of Biological Membranes (*L. Califano*)	7-8	712
Christophorou L. G. Atomic and Molecular Radiation Physics (*P. Caldirola*)	5-6	528
Coleman W. Biology in the Nineteenth Century (*G. Montalenti*)	9-10	897
Côme D. Les obstacles à la germination (*G. Sarfatti*)	7-8	718
Cousteau J.-Y. and Diolé Ph. La vie et la mort des coraux (*T. Lipparini*)	1-2	152
Cribier F. La grande migration d'été des citadins en France (*E. Migliorini*)	1-2	154
Crompton D. W. T. An Ecological Approach to Acanthocephalan Physiology (*L. Califano*)	7-8	715
Cutter E. G. Plant Anatomy: Experiment and Interpretation (*G. Sarfatti*)	5-6	523
Daniel J. C. Jr. (ed.) Methods in Mammalian Embryology (*M. Vialli*)	1-2	155
Davies E. D. and Smith F. G. (eds.) The Crab Nebula (*G. Calamai*)	1-2	157
Dejussieu-Pontcarral P. (ed.) Encyclopédie de l'Electricité (*P. Cavallotti*)	1-2	159
Delattre P. Système, structure, fonction, évolution (*A. Carsetti*)	11-12	1065
D'Elia A. Ernst Mach (*A. Carsetti*)	7-8	707
Dubach U. C. and Schmidt U. (eds.) Recent Advances in Quantitative Histo- and Cytochemistry (*M. Vialli*)	5-6	524
Edwards A. W. F. Likelihood (*B. de Finetti*)	7-8	708
Evans S. D. (ed.) External Galaxies and Quasi-Stellar Objects (*G. Calamai*)	9-10	905
Fjerdingstad E. J. (ed.) Chemical Transfer of Learned Information (*A. Carsetti*)	9-10	890
Flavell J. H. La mente (*M. Mancia*)	11-12	1067
*** Forschungen zur allgemeinen und regionalen Geographie. Festschrift für Kurt Kayser (*E. Migliorini*)	9-10	905

	Fasc.	Pag.
Frajese A. and Maccioni L. (eds.) Gli elementi di Euclide (*P. Cavallotti*)	7-8	718
Fuller W. (ed.) The Social Impact of Modern Biology (*G. Sarfatti*)	1-2	149
Glansdorff P. and Prigogine I. Structure, stabilité et fluctuations (*P. Cavallotti*)	3-4	335
Grüsser O.-J. and Klinke R. (eds.) Pattern Recognition in Biological and Technical Systems (*A. Casali*)	7-8	724
Gurzadyan G. A. Planetary Nebulae (*G. Calamai*)	1-2	158
Hahn R. The Anatomy of a Scientific Institution (*V. Lanternari*)	11-12	1082
Halstead L. B. The Pattern of Vertebrate Evolution (*G. Montalenti*)	11-12	1069
Harris P. J. (ed.) Biological Ultrastructure (*T. Simonic*)	11-12	1069
Harrison D. L. The Mammals of Arabia. Vol. III (*B. Lanza*)	9-10	900
Hartman Ph. E. and Suskind S. R. L'azione del gene (*G. Montalenti*)	9-10	898
Helfrich H. W. Jr. (ed.) Agenda for Survival (*G. Montalenti*)	7-8	710
Herbig G. H. (ed.) Spectroscopic Astrophysics (*A. Ferrari*)	7-8	720
Hey J. S. The Radio Universe (*G. Abetti*)	11-12	1075
Hill A. V. First and Last Experiments in Muscle Mechanics (*G. Montalenti*)	3-4	331
Hilpinen R. (ed.) Deontic Logic: Introductory and Systematic Readings (*O. A. Simone*)	5-6	516
Hoff C. C. and Riedesel M. L. (eds.) Physiological Systems in Semiarid Environments (*B. Lanza*)	5-6	521
Hölzl Wallach D. F. and Fischer H. (eds.) The Dynamic Structure of Cell Membranes (*L. Califano*)	9-10	899
Howard R. (ed.) Solar Magnetic Fields (*G. Calamai*)	11-12	1076
Huang T. S. and Tretiak O. J. (eds.) Picture Bandwidth Compression (*L. Rositani Ronchi*)	11-12	1077
Jammer M. Storia del concetto di forza (*P. Caldirola*)	5-6	528
Julesz B. Foundations of Cyclopean Perception (*L. Rositani Ronchi*)	11-12	1077
Kaelble D. H. Physical Chemistry of Adhesion (*P. Cavallotti*)	9-10	908
Karczmar A. G. and Eccles J. C. (eds.) Brain and Human Behavior (*M. Mancia*)	7-8	713
Kervran C. L. Transmutations biologiques en agronomie (*A. Bozzini*)	7-8	717
Klemke E. D. (ed.) Essays on Bertrand Russell (*N. Griffin*)	7-8	703

	Fasc.	Pag.
Knox W. E. Enzyme Patterns in Fetal, Adult and Neoplastic Rat Tissues (*L. Califano*)	7-8	714
Kofstad P. Nonstoichiometry, Diffusion, and Electrical Conductivity in Binary Metal Oxides (*P. Pedeferri*)	11-12	1078
Kojima K. (ed.) Mathematical Topics in Populations Genetics (*G. Montalenti*)	9-10	896
Kordig C. R. The Justification of Scientific Change (*D. Costantini*)	3-4	323
Kraft V. Mathematik, Logik und Erfarung (*D. Costantini*)	1-2	148
Kühn A. Lectures on Developmental Physiology (*L. Califano*)	7-8	714
Lamotte M. and Bourlière F. (eds.) Problèmes d'écologie: L'échantillonnage des peuplements animaux des milieux aquatiques (*M. Sarà*)	7-8	716
Langer R. H. M. How Grasses Grow (*G. Sarfatti*)	11-12	1073
Lanza D. and Vegetti M. (eds.) Opere biologiche di Aristotele (*G. Montalenti*)	9-10	892
Ledbetter M. C. and Porter K. R. Introduction to the Fine Structure of Plant Cells (*G. Sarfatti*)	5-6	522
Lehmann W. L. Atomic and Molecular Structure (*P. Caldirola*)	11-12	1074
Leonardi P. Vulcani e bolidi sulla Luna e su Marte (*G. Abetti*)	3-4	333
Lerner I. M. Genetic Homeostasis (*G. Montalenti*)	3-4	330
Limoges C. La séléction naturelle (*G. Montalenti*)	9-10	895
Lugaresi E. and Pazzaglia P. (eds.) Gli Stati di Coscienza (*M. Mancia*)	1-2	150
Lutz H. (ed.) Invertebrate Organ Cultures (*M. Sarà*)	7-8	715
Luyten W. J. (ed.) White Dwarfs (*G. Calamai*)	1-2	158
MacClintock D. Squirrels of North America (*B. Lanza*)	9-10	901
Mandl I. (ed.) Collagenase (*L. Califano*)	11-12	1070
Marmo V. Granite Petrology and the Granite Problem (*A. Debenedetti*)	7-8	723
Masini G. Il Romanzo dell'Universo (*G. Abetti*)	11-12	1074
Masini R. Dall'astronomia all'astronautica (*G. Abetti*)	5-6	524
Mason B. (ed.) Handbook of Elemental Abundances in Meteorites (*G. Abetti*)	3-4	333
Mavridis L. N. (ed.) Structure and Evolution of the Galaxy (*G. Calamai*)	7-8	720
Maxwell A. E. (ed.) The Sea (*T. Lipparini*)	3-4	332

	Fasc.	Pag.
Mitchisons J. M. The Biology of the Cell Cycle (*G. Montalenti*)	11-12	1068
*** Molecular Evolution. Vols. I, II (*G. Montalenti*)	7-8	711
Mörzer Bruyns W. F. J. Field Guide of Whales and Dolphins (*B. Lanza*)	9-10	901
Nauk Ch. Histoire des logarithmes. Vol. II (*A. Natucci*)	9-10	910
Nebbia G. (ed.) L'uomo e l'ambiente (*G. Montalenti*)	7-8	709
Nicolini P. Gitologie de concentrations minérales stratiformes (*A. Debenedetti*)	5-6	529
Norbeck E. Religion and Society in Modern Japan: Continuity and Change (*V. Lanternari*)	9-10	888
Pacholczyk A. G. Radio Astrophysics (*G. Calamai*)	5-6	526
Parsons R. T. (ed.) Windows on Africa (*V. Lanternari*)	3-4	323
Pelletier J. P. Techniques numériques appliquées au calcul scientifique (*A. Casali*)	11-12	1080
Pollock N. C. Studies in Emerging Africa (*V. Lanternari*)	3-4	326
Reinert J. and Ursprung H. (eds.) Origin and Continuity of Cell Organelles (*M. Vialli*)	1-2	154
Robson J. R. K. Malnutrition (*L. Califano*)	11-12	1071
Roheim G. Gli Eterni del Sogno (*M. Mancia*)	5-6	515
Rose J. (ed.) Progress of Cybernetics. Vols. I, II, III (*A. Casali*)	7-8	725
Rossi P. I filosofi e le macchine (1400-1700) (*A. Carsetti*)	3-4	321
Rotberg R. I. Rebellion in Black Africa (*V. Lanternari*)	1-2	143
Roubine E. Introduction à la théorie de la communication (*A. Carsetti*)	1-2	147
Russel F. S. and Yonge M. (eds.) Advances in Marine Biology, Vol. 8 (*B. Lanza*)	5-6	519
Schenkel R. and Schenkel-Hulliger L. Ecology and Behaviour of the Black Rhinoceros (*B. Lanza*)	5-6	521
Sciama D. W. Modern Cosmology (*G. Abetti*)	5-6	525
Siciliano A. Il Fortran (*A. Casali*)	11-12	1080
Sneed J. D. The Logical Structure of Mathematical Physics (*D. Costantini*)	3-4	322
Sokolov A. A. and Ternov I. M. Synchrotron Radiation (*A. Ferrari*)	7-8	721
Steno N. Lecture on the Anatomy of the Brain (*G. Montalenti*)	9-10	893

	Fasc.	Pag.
Stiefel E. L. and Scheifele G. Linear and Regular Celestial Mechanics (*G. Calamai*)	9-10	903
Szekely J. and Themelis N. J. Rate Phenomena in Process Metallurgy (*P. Cavallotti*)	9-10	907
Tayler R. J. The Stars: Structure and Evolution (*G. Abetti*)	3-4	334
Unsöld A. Sterne und Menschen (*G. Abetti*)	9-10	904
Vallée R. L. L'énergie électromagnétique matérielle et gravitationnelle (*P. Caldirola*)	3-4	329
Valzelli L. Profili di psicofisiologia e neurochimica (*M. Mancia*)	1-2	150
Viénot J. C., Smigielski P. and Royer H. Holographie Optique (*P. Caldirola*)	3-4	328
*** Vistas in Research. Vol. IV (*L. Califano*)	9-10	899
Volpe E. P. Human Heredity and Birth Defects (*L. Califano*)	1-2	152
Von Fritz K. Grundprobleme der Geschichte der antiken Wissenschaft (*A. Carsetti*)	1-2	145
Weitbrecht H. J. Compendio di psichiatria (*M. Mancia*)	3-4	329
Zeldovich Ya. B. and Novikov I. D. Relativistic Astrophysics. Vol. I (*A. Ferrari*)	3-4	334
Zheleznyakov V. V. Radio Emission of the Sun and Planets (*A. Ferrari*)	5-6	525
Zimmermann M. H. and Brown C. L. Trees (*G. Sarfatti*)	11-12	1072
Zoja R. and Nicodemi W. Metalli (*P. Pedeferri*)	11-12	1079